

Title (en)

ANODE ACTIVE MATERIAL FOR LITHIUM SECONDARY BATTERY AND ANODE FOR LITHIUM SECONDARY BATTERY COMPRISING SAME

Title (de)

AKTIVES ANODENMATERIAL FÜR EINE LITHIUMSEKUNDÄRBATTERIE UND ANODE FÜR EINE LITHIUMSEKUNDÄRBATTERIE DAMIT

Title (fr)

MATÉRIAU ACTIF D'ANODE POUR BATTERIE SECONDAIRE AU LITHIUM ET ANODE POUR BATTERIE SECONDAIRE AU LITHIUM LE COMPRENANT

Publication

**EP 3736887 A1 20201111 (EN)**

Application

**EP 19766534 A 20190314**

Priority

- KR 20180030501 A 20180315
- KR 2019002988 W 20190314

Abstract (en)

The present invention relates to a negative electrode active material for a lithium secondary battery, a negative electrode including the same, and a lithium secondary battery including the negative electrode. Specifically, the present invention relates to a negative electrode active material capable of minimizing changes in a structure and internal total pore volume of an electrode during rolling of the electrode by controlling the type and amount of carbon coated on a surface of an artificial graphite active material, a negative electrode including the same, and a lithium secondary battery including the negative electrode.

IPC 8 full level

**H01M 4/36** (2006.01); **H01M 4/04** (2006.01); **H01M 4/587** (2010.01); **H01M 10/0525** (2010.01)

CPC (source: EP KR US)

**H01M 4/0404** (2013.01 - KR US); **H01M 4/0435** (2013.01 - KR); **H01M 4/133** (2013.01 - EP US); **H01M 4/366** (2013.01 - EP KR); **H01M 4/587** (2013.01 - EP KR); **H01M 10/0525** (2013.01 - EP KR US); **H01M 10/44** (2013.01 - US); **H01M 2004/021** (2013.01 - EP US); **H01M 2004/027** (2013.01 - US); **Y02E 60/10** (2013.01 - EP)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**EP 3736887 A1 20201111**; **EP 3736887 A4 20210414**; **EP 3736887 B1 20230913**; CN 111684627 A 20200918; CN 111684627 B 20230704; KR 102304736 B1 20210924; KR 20190108883 A 20190925; US 11764349 B2 20230919; US 2020365875 A1 20201119; WO 2019177403 A1 20190919

DOCDB simple family (application)

**EP 19766534 A 20190314**; CN 201980011902 A 20190314; KR 20180030501 A 20180315; KR 2019002988 W 20190314; US 201916966740 A 20190314